

File Proj 997113
15 Apr 65 RFO

NPIC/P&DS-149-65
13 April 1965

MEMORANDUM FOR: Chief, Procurement Division, OLC

Declass Review by NGA.

ATTENTION: [REDACTED]

THROUGH: Chief, Support Staff, NPIC

SUBJECT: Contract [REDACTED]

REFERENCE: "Feasibility Study Report -- High Resolution
Step-and-Repeat Contact Printer

1. Paragraph 3.0 of the referenced report requests consideration of a number of revisions to the performance requirements written by this Staff. Attached is our recommendation for action on the revisions. It is requested that the [REDACTED] be notified of the actions recommended and that they advise us of any reduction in cost due to a reduction in requirements, particularly in regard to film lengths and RFI suppression.

2. It is also requested that Item 7 of the "Deliverable Items" of this contract be amended to provide six copies of the monthly narrative report. Two copies will be mailed to the Contracting Officer. The remaining four copies are to be mailed directly to the Technical Representative, using two envelopes addressed as follows:

Outer Envelope: [REDACTED]

Inner Envelope: [REDACTED]

Distribution of these four copies will be made by the Technical Representative.

[REDACTED]
Colonel, USAF

Assistant for Plans and Development

Attachment: Revision to Specifications

Distribution:

Orig & 1 - Addressee 1 - [REDACTED]
1 - Proj file 1 - P&DS chrono
1 - DB chrono

NPIC/P&DS [REDACTED] Approved For Release 2005/05/20 : CIA-RDP78B04770A001600010049-2

REVISIONS OF SPECIFICATIONS

REFERENCE: Performance Requirements for High Resolution Step-and-Repeat Contact Printer, dated 16 December 1963.

<u>Paragraph Nr.</u>	<u>Action Recommended</u>
1.1	<u>Change</u> from "2 1/2 inches" to read " 5 inches".
2.1	approved as revised.
2.1.1	approved as revised.
2.1.3	This paragraph will be held in suspense pending submission, by the Contractor, of a new approach to the problem of frame identification and automatic printing.
2.3.2	<u>Change</u> the last sentence to read: "The printer will operate properly in a room environment of approximately 70° to 80° F and a relative humidity of 55% to 70%."
2.4.2	<u>Delete</u> and substitute the following: " <u>Film Lengths:</u> Film rolls up to 500 feet of negative film and print film, respectively. It shall be a design objective to handle film rolls up to 1,000 feet."
2.4.4	<u>Delete</u> and substitute the following: " <u>Representative Film Types:</u> 8430, 5427, 8402 and 80130."
2.4.5	Approved as revised.
2.4.6	Approved as revised.
2.4.7	<u>Add</u> the following: "Perforated film will not be used. Duplication film will be blue sensitive only. No panchromatic films will be used."
2.5	<u>Change</u> paragraph to read: "The printer shall produce prints (in dynamic mode) in nominal format sizes from a minimum of 2 1/2 x 5 inches to a maximum of 9 1/2 x 30 inches, as well as selected intermediate format sizes. Masks along the width of the film may be used to eliminate edge data when, so desired. The mask edge image need not be sharp, and the

Paragraph Nr.

Action Recommended

2.6

Change paragraph to read: "The print rate shall be no less than 10 frames per minute, and the specified requirements for maximum quality shall be maintained. For purposes of demonstrating printing rate, a minimum output density of 0.05 above base fog shall be produced on 5427 duplicating film (processing in accordance with manufacturer's recommendation), using a uniform input density of 2.5. Resolution may be demonstrated on a high resolution film, such as 80-105 or 80-267.

2.7

Approved as revised.

2.8

Change paragraph to read: "Resolution: the printer, in its dynamic mode, shall be capable of consistently producing exposures of not less than 400 lpm from original targets of 1000:1 contrast ratio and resolving a minimum 800 lpm. This resolution requirement shall apply over the entire format of each specified size. In the event that original targets of 800 lpm of 1000:1 contrast ratio are not available, it will be sufficient if 400 lpm can be demonstrated with any input target of over 400 lpm. Microdensitometer traces will be made; however, measurement of the resolution will be accomplished visually."

2.11

Change paragraph to read: "Newton Rings: Provisions shall be made to prevent Newton rings from affecting the photographic quality of the output."

2.14

Approved as revised.

2.15

Change paragraph to read: "Film Cleaning: The negative and duplicating films will be furnished pre-cleaned and will require no further cleaning."

2.19.1.3

Delete the entire paragraph.

2.22.1

Approved as revised.

2.22.3

Approved as revised.

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Paragraph No.

Action Recommended

2.23.6

Delete and substitute the following: "All reasonable efforts will be made to reduce radio frequency interference to a minimum. Reduction of RFI will not be carried out to the extent that costs of components, design or fabrication are greatly increased as a result. Also, the RFI reduction must not result in hampering the operation of the device or result in a reduction in the requirements for resolution and speed of operation."

2.25

Re-write the revision to be more specific: Machine Size: The printer shall be less than 6' high x 8' long x 3.5' deep in size."

2.26

Re-write the revision to read: Briefing Boards: Briefing boards or artists concepts of the printer will be furnished in accordance with the specification supplied by the technical representative."

2.27

Add the following new paragraph: Full Frame Viewing: Full frame viewing of the frame to be printed will be provided."

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